What is claimed is;

1. An electronic still camera, comprising:

a charge storage type image-capturing element that stores electrical charges in correspondence to subject brightness distribution;

a continuous shooting setting unit that sets either a first continuous shooting mode or a second continuous shooting mode in which photographs are taken over shorter intervals than in said first continuous shooting mode; and

a recording signal output circuit that repeatedly stores electrical charges at said image-capturing element and reads out image data from said image-capturing element when either continuous shooting mode has been set by said continuous shooting setting unit and compresses and outputs image data corresponding to a frame which has been read out immediately before while electrical charges for the next frame are being stored during, at least, a period of time in which said second continuous shooting mode has been set.

2. An electronic still camera according to claim 1, wherein:

said image-capturing element is provided with a plurality of pixels; and

said recording signal output circuit reads out image

data only from some of the pixels at said image-capturing element while said second continuous shooting mode has been set.

3. An electronic still camera according to claim 1, wherein:

when said second continuous shooting mode has been set, an image-capturing sensitivity higher than an image-capturing sensitivity for said first continuous shooting mode has been set.

4. An electronic still camera according to claim 2, wherein:

when said second continuous shooting mode has been set, an image-capturing sensitivity higher than an image-capturing sensitivity for said first continuous shooting mode has been set.

5. An electronic still camera according to claim 1, further comprising:

an exposure value setting unit that sets shutter speed and aperture corresponding to subject brightness in conformance to a predetermined program chart, wherein:

said exposure value setting unit is provided with a first continuous shooting mode program chart and a second

continuous shooting mode program chart, with said second continuous shooting mode program chart shifted toward a higher shutter speed side relative to said first continuous shooting mode program chart.

6. An electronic still camera according to claim 2, further comprising:

an exposure value setting unit that sets shutter speed and aperture corresponding to subject brightness in conformance to a predetermined program chart, wherein:

said exposure value setting unit is provided with a first continuous shooting mode program chart and a second continuous shooting mode program chart, with said second continuous shooting mode program chart shifted toward a higher shutter speed side relative to said first continuous shooting mode program chart.

7. An electronic still camera according to claim 3, further comprising:

an exposure value setting unit that sets shutter speed and aperture corresponding to subject brightness in conformance to a predetermined program chart, wherein:

said exposure value setting unit is provided with a first continuous shooting mode program chart and a second continuous shooting mode program chart, with said second

continuous shooting mode program chart shifted toward a higher shutter speed side relative to said first continuous shooting mode program chart.

8. An electronic still camera according to claim 1, further comprising:

a mechanical shutter provided to block photographic, light fluxes traveling to said image-capturing element, wherein:

when said second continuous shooting mode has been set, electrical charges are stored at said image-capturing element and image data are read out from said image-capturing element while said mechanical shutter is left open.

9. An electronic still camera according to claim 2, further comprising:

a mechanical shutter provided to block photographic, light fluxes traveling to said image-capturing element, wherein:

when said second continuous shooting mode has been set, electrical charges are stored at said image-capturing element and image data are read out from said image-capturing element while said mechanical shutter is left open.

10. An electronic still camera according to claim 3, further comprising:

a mechanical shutter provided to block photographic, light fluxes traveling to said image-capturing element, wherein:

when said second continuous shooting mode has been set, electrical charges are stored at said image-capturing element and image data are read out from said image-capturing element while said mechanical shutter is left open.

11. An electronic still camera according to claim 5, further comprising:

a mechanical shutter provided to block photographic, light fluxes traveling to said image-capturing element, wherein:

when said second continuous shooting mode has been set, electrical charges are stored at said image-capturing element and image data are read out from said image-capturing element while said mechanical shutter is left open.

12. An electronic still camera according to claim 1, wherein:

when said second continuous shooting mode has been set, a shutter speed corresponding to a continuous shooting speed is set at a lower speed limit.

13. An electronic still camera according to claim 2, wherein:

when said second continuous shooting mode has been set, a shutter speed corresponding to a continuous shooting speed is set at a lower speed limit.

14. An electronic still camera according to claim 3, wherein:

when said second continuous shooting mode has been set, a shutter speed corresponding to a continuous shooting speed is set at a lower speed limit.

15. An electronic still camera according to claim 5, wherein:

when said second continuous shooting mode has been set, a shutter speed corresponding to a continuous shooting speed is set at a lower speed limit.

16. An electronic still camera according to claim 8, wherein:

when said second continuous shooting mode has been set,

a shutter speed corresponding to a continuous shooting speed is set at a lower speed limit.

17. An electronic still camera, comprising:

a charge storage type image-capturing element that stores electrical charges in correspondence to subject brightness distribution;

a continuous shooting setting unit that sets either a first continuous shooting mode or a second continuous shooting mode in which photographs are taken over shorter intervals than in said first continuous shooting mode;

a recording signal output circuit that repeatedly stores electrical charges at said image-capturing element and reads out image data from said image-capturing element when either continuous shooting mode has been set by said continuous shooting setting unit and reads out image data only from some of the pixels at said image-capturing elements while said second continuous shooting mode has been set; and

a sensitivity setting unit that sets a higher image-capturing sensitivity in said second continuous shooting mode than an image-capturing sensitivity set in said first continuous shooting mode.

18. An electronic still camera, comprising:

a charge storage type image-capturing element that stores electrical charges in correspondence to subject brightness distribution;

a continuous shooting setting unit that sets either a first continuous shooting mode or a second continuous shooting mode in which photographs are taken over shorter intervals than in said first continuous shooting mode;

a recording signal output circuit that repeatedly stores electrical charges at said image-capturing element and reads out image data from said image-capturing element when either continuous shooting mode has been set by said continuous shooting setting unit and reads out image data only from some of the pixels at said image-capturing elements while said second continuous shooting mode has been set; and

an exposure value setting unit that sets shutter speed and aperture corresponding to subject brightness in conformance to a predetermined program chart, wherein:

said exposure value setting unit is provided with a first continuous shooting mode program chart and a second continuous shooting mode program chart, with said second continuous shooting mode program chart shifted toward a higher shutter speed side relative to said first continuous shooting mode program chart.

19. a charge storage type image-capturing element that stores electrical charges in correspondence to subject brightness distribution;

a continuous shooting setting unit that sets either a first continuous shooting mode or a second continuous shooting mode in which photographs are taken over shorter intervals than in said first continuous shooting mode;

a recording signal output circuit that repeatedly stores electrical charges at said image-capturing element and reads out image data from said image-capturing element when either continuous shooting mode has been set by said continuous shooting setting unit and reads out image data only from some of the pixels at said image-capturing elements while said second continuous shooting mode has been set; and

a sensitivity setting unit that sets a higher image-capturing sensitivity in said second continuous shooting mode than an image-capturing sensitivity set in said first continuous shooting mode; and

an exposure value setting unit that sets shutter speed and aperture corresponding to subject brightness in conformance to a predetermined program chart, wherein:

said exposure value setting unit is provided with a first continuous shooting mode program chart and a second continuous shooting mode program chart, with said second

continuous shooting mode program chart shifted toward a higher shutter speed side relative to said first continuous shooting mode program chart.

20. An electronic camera, comprising:

a charge storage type image-capturing element that stores electrical charges in correspondence to subject brightness distribution;

a single shot/continuous shooting setting unit that sets either a single shot mode or a continuous shooting mode; and

a recording signal output circuit that repeatedly stores electrical charges at said image-capturing element and reads out image data from said image-capturing element when said continuous shooting mode has been set by said single shot/continuous shooting setting unit and compresses and outputs image data corresponding to a frame read out immediately before while electrical charges are being stored for the next frame.